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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/671,846	09/25/2003	Eugene George Olczak	133074-1	8697
759	90 03/14/2005		EXAMINER	
General Electric Company			CHEVALIER, ALICIA ANN	
CRD Patent Doo	cket Rm 4A59			
Bldg. K-1			ART UNIT	PAPER NUMBER
P.O. Box 8			1772	
Schenectady, NY 12301			DATE MAILED: 03/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/671,846	OLCZAK ET AL.					
		Examiner	Art Unit					
	The MAN INC DATE of the	Alicia Chevalier	1772					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on <u>02 M</u>	farch 2005.						
	This action is FINAL . 2b)⊠ This action is non-final.							
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)🛛	☑ Claim(s) <u>1-28</u> is/are pending in the application.							
-	4a) Of the above claim(s) <u>14-28</u> is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)🖂	Claim(s) <u>1-13</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[
Applicati	ion Papers							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
7—	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)□	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	• •							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D						
	æ of Draπsperson's Patent Drawing Review (P1O-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal F		O-152)				
	r No(s)/Mail Date <u>9/25/03</u> .	6) Other:						

DETAILED ACTION

1. Claims 1-28 are pending in the application, claims 14-28 are withdrawn from consideration.

Election/Restrictions

- 2. Applicant's election without traverse of Group I, claims 1-13, in the reply filed on March 2, 2005 is acknowledged.
- 3. Claims 14-18 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

 Election was made without traverse in the reply filed on March 2, 2005.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 10 is rejected under 35 U.S.C. 112, second paragraph for being in improper alternative language. Proper language for a markush group in a claim is "where in R is a material selected from the group consisting of A, B, C, and D," MPEP 2173.05.

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Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by McGrath (U.S. Patent No. 4,025,159).

Regarding Applicant's claim 1, McGrath discloses a multiplayer optical film (cellular retroreflective sheeting, title). The film comprises at least two component films (bass sheet and cover film, col. 3, lines 25-26). At least one of the component films (bass sheet) has an upper and lower surface (figure 3). The upper surface comprises a series of optical structures (mircospheres, col. 3, line 33) and a plurality of raised spacing structures (narrow intersecting bonds, col. 3, line 26). The lower surface is essentially planar (figure 3). The component films are joined so as to constitute a single structure comprising at least one gap disposed between the component films (figure 3).

Regarding Applicant's claims 2 and 3, McGrath discloses that the optical structures are convex and concave structures (mircospheres, col. 3, line 33 and figure 3).

Regarding Applicant's claim 4, McGrath discloses that the optical structures are prisms, since the reference discloses cube-corner elements can be interchangeable used with the microspheres (col. 6, lines 13-20 and figure 7).

Regarding Applicant's claims 5 and 6, McGrath discloses that the raised spacing structures comprise at least one post-structure and/or at least one beam structure (narrow intersection bonds, col. 3, line 26 and figures 1, 3 and 7).

Regarding Applicant's claim 7, McGrath discloses that the spacing structures have a height relative to the optical structures between about 0.1 and about 20 microns, since the reference shows in figure 3 that the spacing structure, i.e. narrow intersection bonds, have a height of half the diameter of the optical structures, i.e. microspheres, and the diameter of the microspheres is between 10 and 200 micrometers (*col. 5, lines 29-30*), which means that the height of the narrow intersection bonds is between 5 to 100 microns.

Regarding Applicant's claim 8, McGrath discloses that the raised spacing structures comprise at least one post-structure (narrow intersection bonds, col. 3, line 26 and figures 1, 3 and 7).

Regarding Applicant's claim 9, McGrath discloses that the component films have a thickness between about 0.006 and about 5 millimeters, since the reference discloses that the base sheet has a thickness of 75 micrometers (*col. 6, lines60-61*) and the cover film has a thickness between 1 and 5 mils (*col. 5, line 14*), which together have a thickness of 100.4-203 micrometers or 0.1 to 0.2 mm.

Regarding Applicant's claim 10, McGrath discloses that the gap comprises solid matter, fluid matter and combinations thereof, since the reference discloses that air, i.e. a fluid, in the gaps (col. 3, lines 23-30).

Regarding Applicant's claims 11 and 12, McGrath discloses that the raised spacing structures have either equal or unequal heights relative to the optical structures (figures 3 and 7).

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Regarding Applicant's claim 13, figure 3 in McGrath shows that the raised spacing structures occupy an area, the area is deemed to define a percentage of a total area of the film surface upon which the raised spacing structures are disposed. Furthermore, it can be seen from figure 1 that the percentage is in the range between about 1 and about 50.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, spontact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alicia Chevalier

lecia (Levelles

3/8/05